LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 311

SHORTS or MIDDLINGS

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OTTAWA, April 29, 1915.

J. F. VINCENT, ESQ.,
Deputy Minister Inland Revenue.

SIR,—I have the honour to hand you a report upon one hundred and eighty-nine (189) samples purchased by our inspectors as Shorts or Middlings.

This valuable feed has been made the subject of several reports since 1906 (see Bulletin 116, 156, 191, 231, 254); and it would appear that a considerable variation in character is found in the article sold under the names given.

The late Chief Chemist in a report dated March 16, 1906, advised legislation to define Feeding Stuffs (Bull. No. 116) along the lines of an Act passed by Massachusetts in 1903. Our existent Commercial Feeding Stuffs Act became law in 1909. The extended knowledge recognized in the manufacture and sale of Cattle feeds, has caused similar legislation to be enacted by most countries and this legislation, like our own, generally recognizes two classes of Feeds. *First*, those which, on account of their origin in nature or in manufacture, have a more or less constant composition and can be defined by fixing limiting values as provided by section 26 of the Adulteration Act. This class has been generally held to include Bran, Shorts, Middlings and so called Chop Feeds. *Second*, those which are manufactured according to a formula devised by the manufacturer, and usually proprietary. This class of feeds has, of course, extremely variable character; and the purchaser is entirely at the mercy of the manufacturers so far as concerns the value he gets for his money. Our Act requires that such feeds be sold only under a registration number, granted by the Department of Inland Revenue; and under a guarantee of minimum content in proteids and fat, and of maximum content in fibre. They are known, on the market as Registered Stock Feeds, in contradistinction to the first class, which may be sold without registration.

The limiting values fixed by Order in Council (see G. 932 and G. 968) for Shorts or Middlings, were determined by analysis of a very large number of samples purchased under these names. Details will be found in Bulletins No. 116, 156, 191 and 231 and the conclusion was reached that Shorts and Middlings must be regarded as practically the same thing, and that the minimum value for an article sold as Shorts or Middlings should be as follows:

Protein	15 per cent.
Fat	4 per cent.
Fibre	8 per cent (maximum.)

That these values are reasonable and just, is indicated by the results of inspection. Thus:—

Bulletin.	Year.	Number of Samples.	Mean Protein.	Mean Fat.	Mean Fibre.
116	1906	9	16·12	3·87	8·34
156	1908	36	16·37	4·00	7·75
191	1909	258	15·25	4·04	5·63
231	1912	126	16·09	4·57	5·83
254	1913	140	15·87	4·38	5·30
Total		569	15·67	4·09	5·77

There is, however, an article on the market which many of our inspectors have been supplied with under the name of *Shorts*, or *Special Shorts*, or *Choice Shorts*. This article appears to be regarded as superior to shorts, as ordinarily understood, its superiority consisting apparently in its whiter colour, due to more complete removal of the bran, or chaff, of the grain. It is really a low grade flour; and while it contains less fibre than ordinary shorts, it usually shows a lower fat value. I have drawn attention to this article in Bulletins 231 and 254, and have suggested the advisability of recognizing it as distinct from Shorts or Middlings, and calling it *Feed Flour*, a name which seems to properly describe it. The protein value of this article is in many cases quite as high as that of Shorts or Middlings, but its fat value, is usually distinctly lower, owing to more complete removal of the germ of the wheat.

In order clearly to show the difference betwen Feed Flour and Shorts (or Middlings) proper, I may cite the following example:—

	Proteids.	Fat.	Fibre.
From Bulletin 231.			
46084	11·20	2·16	1·5
36956	12·73	1·55	0·7
43271	12·51	2·08	0·8
43281	13·26	2·32	1·3
28512	14·61	4·64	1·5
47413	15·11	2·66	1·9
47414	13·60	3·16	1·8
43866	15·20	3·40	1·8
48415	14·83	3·32	1·4
38185	11·42	1·99	0·9
38186	15·79	3·08	1·8
38188	14·13	2·82	2·6
38189	12·03	1·81	0·5
47611	14·61	2·37	1·1
47618	13·04	1·98	0·8
47621	13·71	2·28	1·0
Means	13·61	2·60	1·4

	Proteids.	Fat.	Fibre.
From Bulletin 254.			
39160	15·71	3·50	1·3
36047	14·00	2·54	2.3
48676	13·78	2·04	1·4
Means	14·49	2·69	1·6
From present report.			
63526	16·55	4·60	1·3
61593	16·75	3·34	0·8
52047	13·25	2·74	0·9
55126	16·85	3·06	0·7
55127	17··5	3·42	1·8
55130	18·20	2·99	0·7
55131	16·60	3·04	1·7
55135	15·60	3·96	0·9
62033	17·00	3·04	0·9
Means	16·49	3·35	1·1

As already pointed out, the most noteworthy deviation from the standard for Shorts (Middlings) is the very low fibre; but this is accompanied by a lower percentage of fat, and in some cases by a lower protein value. It appears to me that this article should be placed on the market under a distinctive name; in which case it will be necessary to define it independently of shorts (middlings) under which term it apparently finds sale at present. The matter will be considered by your Advisory Board; and in the meantime I would suggest that the following examples of the article which appear in the present collection, be not dealt with as adulterated shorts or middlings, although the fat percentage is below the standard demanded. The protein content meets the requirements of 15 per cent (except in one sample) and as already explained, I have reason to believe that all samples referred to were offered in good faith, as believed to be superior grades of shorts or middlings. The samples in question are Nos. 61593, 52047, 55126, 55127, 55130, 55131, and 62033.

The following summarizes the results of this inspection:

Genuine (as shorts or middlings)	170 samples.
Passed, as being Feed Flours, etc.	12 samples.
Genuine as to feed value, but containing noxious weed seeds	3 samples.
Below standard value	4 samples.
Total	189 samples.

I would respectfully advise publishing this report as Bulletin No. 311.

I have the honour to be, Sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1914.							
Dec. 30	Middlings..	54241	I. B. Shaffner & Co Ltd., Halifax, N. S.	2 lbs.	Nil.	Ogilvie M. Co., Montreal.	Mfrs.
" 30	" ..	54242	" "	2 " ..	"	St. Lawrence M. Co., Montreal	"
" 31	" ..	54243	F. A. Shaw, Halifax, N. S.	2 " ..	"	Campbell M. Co., Toronto.	I. B. Shaffner Co., Halifax.
" 31	" ..	54244	G. A. Redmund & Co., Halifax, N. S.	2 " ..	"	T. H. Taylor, Ltd. Chatham, Ont.	Mfrs.
1915.							
Jan. 11	" ..	54245	Wentzell's Ltd., Halifax, N. S.	2 " ..	Nil.	Lake of the Woods M. Co., Brantford, Ont.	"
" 11	" ..	54246	A. & W. Smith & Co., Halifax, N. S.	2 " ..	"	Quaker Oats Co., Peterboro, Ont.	"
" 11	" ..	54247	" "	2 " ..	"	Maple Leaf M. Co., Canada.	"
" 11	" ..	54248	J. D. Stewart, Halifax, N.S.	2 " ..	4	McLeod M. Co., Stratford, Ont.	Hunt & Nelson, Halifax, N. S.
" 14	" ..	54249	Cross & De Wolfe, Kentville, N. S.	2 " ..	Nil.	Hunt Bros., London, Ont.	Mfrs.
" 15	" ..	54250	Wentworth Stores, Windsor, N. S.	2 " ..	5	St. Lawrence M. Co., Montreal.	"
DISTRICT OF PRINCE EDWARD ISLAND—							
1914.							
Oct. 24	Shorts.....	60161	Beer & Goff, Charlottetown, P. E. I.	3 lbs.	6	Ogilvies, Montreal.	
" 28	Middlings..	60162	A. Horne & Co., Charlottetown, P. E. I.	3 " ..	....	Canada M. Co., Ltd., Lake of the Woods.	
" 28	" ..	60163	Auld Bros., Charlottetown, P. E. I.	3 " ..	....	Woodburn M. Co., Glencoe, Ont.	
" 28	" ..	60164	" "	3 " ..	....	The Maple Leaf M. Co. Toronto.	
DISTRICT OF NEW BRUNSWICK—							
Nov. 11	Middlings..	59626	W. J. Alexander. St. John, N.B.	3 lbs.	15	Maple Leaf M.Co., Ltd., Ont.	
" 11	" ..	59627	C. H. Perters Sons, St. John, N.B.	3 "	15	Campbell F.M.Co., Toronto & Peterboro.	
" 13	" ..	59628	P. Nase & Son, St. John, N.B.	3 "	15	Lake of the Woods M.Co., Ltd., Ont.	

MIDDLINGS (SHORTS.)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks, and opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.	Vital Weed Seeds per ounce.		
R. J. WAUGH, INSPECTOR.						
	p. c.	p. c.	p. c.			
.....	15·30	3·72	6·65	47 Lambs' quarters, 1 Pepper grass.	54241	Genuine.
.....	16·20	4·74	6·75	None.....	54242	"
"Bull Rush" Brand.....	19·00	4·40	8·75	"	54243	"
.....	18·45	4·44	7·75	"	54244	"
.....	17·35	4·36	8·70	"	54245	"
.....	19·65	4·84	8·55	"	54246	"
.....	17·30	4·48	8·65	"	54247	"
Sold as Shorts.....	15·70	4·10	10·60	1 Lambs' quarter, 3 chess	54248	Some excess fibre. Pass.
.....	16·40	4·16	10·30	7 Lambs' quarters.	54249	"
.....	17·70	4·46	7·80	None.....	54250	Genuine.
WM. A. WEEKS, INSPECTOR.						
.....	16·60	4·16	8·15	60 Lambs' quarters, 1 Cinquefoil, 1 Tumbling Mustard, 1 evening primrose.	60161	Genuine.
.....	19·15	5·68	7·55	None.....	60162	"
.....	15·25	4·00	8·45	"	60163	"
.....	17·05	4·42	9·05	"	60164	"
JNO. C. FERGUSON, INSPECTOR.						
Maple Leaf Brand. Registered.	18·90	5·20	7·0	None.....	59626	Genuine
Wheat, "Bull Rush" Brand.	17·65	5·42	8·40	"	59627	"
Wheat	19·85	5·72	7·25	"	59628	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NEW BRUNSWICK—							
1914.							
Nov. 19	Middlings..	59629	B. Beveridge, Andover, N.B.	3 lbs	15	Empire F.M. Ltd., St. Thomas, Ont.	.. ..
" 20	" ..	59630	Geo. T. Whelpley Estate, Fredericton, N.B.	3 "	15	Western Canada F. M., St. John, N.B.	....
" 20	" ..	59631	Currie Bros., Fredericton, N.B.	3 "	25	Robin Hood M., Ltd., Moose Jaw.	.....
" 26	" ..	59632	Hill Bros., St. Stephen, N.B.	3 "	15	Dominion F. M., Ltd., Montréal.	.....
Dec. 8	" ..	59633	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	15	Ogilvie M. Co., Montreal, P. Q.	.....
" 9	" ..	59634	The Fawcett M. Co., Ltd., Moncton, N.B.	3 "	15	Maple Leaf M. Co., Ltd., Toronto.	.....
" 10	" ..	59635	J. B. Snowball Co., Ltd., Chatham, N.B.	3 "	15	Empire F. M., Blenheim, Ont.	.....
DISTRICT OF QUEBEC CITY—							
Nov. 6	Middlings..	60729	J. B. Renaud & Cie., Quebec.	3 lbs.	....	St. Lawrence F.M. Co.	Mfrs.....
" 6	Shorts.....	60730	" " ..	3 "	....	Ogilvie F. M. Co.	" .....
" 6	Middlings..	60731	G. Tanguay, Quebec.....	3 "	...	Dominion F. M. Co.	" .....
" 6	Shorts. ...	60732	" "	3 "	...	Ogilvie F. M. Co..	" ....
" 6	"	60733	W. Carrier & Fils, Quebec..	3 "	....	" ..	" ....
" 6	Middlings..	60734	F. Kirouack & fils, Quebec.	3 "	....	Western Canada F. M.	Manufacturer...
" 6	Shorts.....	60735	" " ..	3 "	....	Ogilvie F. M. Co..	. ... " ...
" 9	Middlings..	60736	P. T. Busiere, Quebec	3 "	....	Lac des Bois.....	..... " .....
" 9	Shorts.....	60737	" "	3 "	....	" "	..... " .....
" 9	"	60738	F. E. Drolet, Quebec	3 "	....	Ogilvie F. M. Co.	... . " .....
DISTRICT OF QUEBEC PROVINCE—							
Nov. 7	Middlings..	56418	Selvio Levasseur.	2 lbs.	4	....	Geo. Tanguay, Quebec.
" 9	" ..	56422	D. E. Bernier.....	2 "	5	Canadian C. M., Toronto.	.. ..
" 2	" ..	203	Damien Hetu, St. Agathe des Monts.	3 "	9	Ogilvie's	.....
" 2	" ..	205	J. B. Belisle, St. Agathe des Monts.	3 "	5	St. Lawrence.	.. ..
" 2	" ..	206	Noe Forget, St. Agathe des Monts.	3 "	9	Lake of the Woods	

MIDDLINGS (SHORTS.)

Inspector's Report. (Is not an Expression of opinion.)	Results of Analysis. Protein.	Fat.	Fibre.	Vital Weed Seeds per Ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.						
	p. c.	p. c.	p. c.			
Wheat, "Germ Feed"	17·75	4·26	6·25	None	59629	Genuine.
Wheat. Reg. No. 64. Protein = 18·36. Fat = 6·04. Fibre = 7·51.	18·05	5·74	6·70	"	59630	"
Guaranteed analysis. Crude protein = 17·25. Crude Fat = 6·50. Fibre = 5·20.	20·00	6·22	6·30	"	59631	"
Wheat	16·90	5·08	8·60	"	59632	"
Ogilvie's Wheat	18·60	4·68	8·00	"	59633	"
Wheat. Reg. M.L.M.	17·90	3·84	7·15	"	59634	"
Wheat	16·35	4·80	7·15	4 False Flax	59635	Genuine. Excess vital weed seeds.
F. X. W. E. BELAND, INSPECTOR.						
	17·85	4·70	8·20	None	60729	Genuine.
	16·75	4·04	7·30	3 lambs quarters, 1 chess 1 peppergrass.	60730	"
	17·30	5·22	7·20	None	60731	"
	18·85	4·82	7·65	"	60732	"
	18·30	4·90	6·85	10 lambs quarters	60733	"
	17·20	5·38	6·75	None	60734	"
	16·75	4·48	8·15	70 Lambs' Quarters, 3 Black Bindweed.	60735	"
	18·95	4·04	6·75	None	60736	"
	18·30	4·58	6·90	"	60737	"
	16·00	4·44	10·35	"	60738	Some excess fibre, pass.
A. PELLETIER, N. CADIEUX, J. E. AUDET AND T. GENDREAU, TEMP. INSPECTORS.						
	15·95	4·76	10·00	None	56418	Genuine.
	17·85	5·90	7·05	"	56422	"
	17·40	4·48	8·00	"	203	"
	18·05	5·82	7·70	"	205	"
	19·50	4·08	4·10	"	206	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF QUEBEC PROVINCE—				
1914.							
Nov. 11	Middlings..	217	C. Taillon, Ste. Jerome	3 lb..	15	Ogilvie's.....	... .
" 16	" ..	223	Jerome Filion, Ste. Jerome.	3 " ..	5	Macdonald & Robb	.. ..
Dec. 20	" ..	240	J. B. Leferne, Ste. Therese	3 " ..	5	St. Lawrence.....	.. ..
" 20	" ..	242	Waddell & Frere, Ste. Therese.	3 " .	5	"	....
" 20	" .	244	D. Cloutier, Ste. Therese...	3 " ..	6	"	... .
" 20	" .	248	A. Delormes, Ste. Thérèse..	3 " ..	5	Ogilvie's	... .
Nov. 12	" ..	3714	Jos. Turgeon, Ste. Isadore..	3 " ..	5	Can. C. and F. M., Toronto.	.....
Dec. 3	" .	2876	A. Cloutier, St. Odilon.....	2 " ..	5	....	Lergeon & Gourdeau, Quebec.
" 4	Shorts.....	2884	L. J. Audet, St. Edward...	2 " ..	5	. ...	Dorchester Lumber.
Nov. 25	Middlings..	2734	Arcadius Caron, Montmagny	3 " ..	6	.. ..	Maple Leaf Ltd., Canada.
			DISTRICT OF THREE RIVERS—				
Oct. 24	Shorts.....	2625	E. Barette, Joliette.....	3 lb..	5	St. Lawrence F. M. Co., Montreal.	.. . .
" 26	"	2626	Louis Pauze, L'Assomption	2 " ..	10	Ogilvie F. M. Co., Montreal.	....
" 28	" . ..	2627	Archibald Duff, Charlemagne.	2 " ..	5	Lake of the Woods Co., Montreal.	....
" 28	"	2628	Edm. Robillard, St. Paul L'ermite.	2 " ..	6	Ogilvie F. M. Co., Montreal.	....
" 31	Middlings..	2695	B. Coutu, Berthierville.....	2 " ..	6	St. Lawrence F. M., Montreal.	....
" 31	Shorts... ..	2696	" "	2 " ..	6	" " ..	....
Nov. 2	"	3904	G. H. Read, St. Felix de Valois.	2 " ..	5	Ogilvie F. M., Montreal.	.. ..
" 3	"	3905	Louis Enos, St. Felix de Valois.	2 " ..	6	St. Lawrence F. M., Montreal.	....
" 3	"	3906	Wilfred Brissette, St. Felix de Valois.	2 " .	6	Can. Western Fl. Co., Montreal.	....
" 5	" ...	8910	Frs. Rivest, Joliette.....	2 " ..	6	Vendor	... .
			DISTRICT OF MONTREAL—				
1915.							
Jan. 8	Shorts ...	62611	C. Campbell, 748 Charlevoix, Montreal.	2 lbs.	....	....	W. Lamarre & Co., Montreal.
" 9	"	62612	Hall Bros. Rgd., 270 Moreau St.	2 "	....	....	Geo. Cardinal. Montreal.

MIDDLINGS (SHORTS).

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.	Vital Weed Seeds per Ounce.		
Concluded.						
	p. c.	p. c.	p. c.			
	16·35	3·92	7·90	2 Lambs' Quarters, 1 Peppergrass.	217	Genuine.
	16·85	4·24	5·25	None	223	"
	17·25	4·26	6·90	"	240	"
	18·35	4·68	8·40	"	242	"
	17·95	4·78	7·90	"	244	"
	17·65	4·34	5·95	"	248	"
	16·50	4·76	8·40	"	3714	"
Maple Leaf	16·25	4·00	7·20	"	2876	"
Ogilvie's	19·10	4·46	6·75	13 Lambs' Quarters	2884	"
	18·10	4·32	7·60	None	2734	"
DR. V. P. LAVALLÉE, INSPECTOR.						
	16·50	4·58	8·30	None	2625	Genuine.
	19·05	4·28	6·60	2 Lambs' Quarters, 1 Black Bindweed, 1 Cow Cockle, 1 Peppergrass.	2626	"
	19·15	4·88	7·25	None	2627	"
	18·00	4·00	6·90	10 Lambs' Quarters, 1 Peppergrass.	2628	"
	19·05	4·52	6·80	None	2695	"
	18·95	5·26	8·85	"	2696	"
	16·25	4·54	9·20	30 Lambs' Quarters, 3 Black Binweed.	3904	"
	18·15	5·04	8·95	None	3905	"
	16·65	5·28	7·00	"	3906	"
	16·70	4·76	7·80	1 Stickweed	3910	"
D. J. KEARNEY, INSPECTOR.						
	15·95	4·34	7·10	None	62611	Genuine.
	18·15	4·52	6·30	"	62612	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF MONTREAL—				
1915.							
Jan. 9	Shorts	62613	J. A. Roberge, 259 Moreau St.	2 lbs.	....		E. A. Barry, Montreal.
" 9	"	62614	Jos. Larcheveave, 578 Ontario St., Montreal.	2 "	....		Unknown.
" 11	Middlings	62615	B. Vaillencourt, 1195 St. Lawrence Boul., Montreal	2 "	....	West Canada F. M. Co.	
" 11	Shorts	62616	St. Louis Grain & Feed Co., 2105 St. Lawrence Boul., Montreal.	2 "	....		Unknown.
" 11	"	62617	F. Gobeille, Cor. Maguire & Sanguinet.	2 "	....	Dom. F. Mills	
" 11	Middlings	62618	" " "		....	Robin Hood, F. M.	
" 12	"	62619	O. Charbonneau, Pointe & Trembles.	2 "	5		Unknown.
" 12	"	62620	E. Benoit & Fils, 181 St. Paul St., Montreal.	3 "		Ogilvie F. M.	
			DISTRICT OF VALLEYFIELD AND EASTERN TOWNSHIPS—				
1914.							
Nov. 9	Middlings	63021	M. K. M'Kenzie, Richmond	2 lbs.	10	M'Leod M. Co., Stratford, Ont.	
" 9	Shorts	63022	" " "	2 "	10	" "	
" 9	"	63023	" " "	2 "	10	Ogilvie F. M. Co.	
" 9	Middlings	63024	F. H. McKee, "	2 "	5	" "	
" 9	"	63025	" " "	2 "	5	Maple Leaf M. Co.	
" 10	"	63026	George McCracken, Danville.	2 "	5	Ogilvie F. M. Co., Ltd.	
" 10	Shorts	63027	" "	2 "	5	" "	
" 10	"	63028	J. Audet, Coaticook	3 "	10	St. Lawrence F.M. Co., Ltd.	
" 10	Middlings	63029	" "	3 "	10	Ogilvie F. M. Co., Ltd.	
" 10	"	63030	Lovell, Bros., Coaticook	3 "	10	Lake of the Woods M. Co., Ltd.	
" 17	Shorts	62841	Lahaie & Sons, Buckingham	3 "	10	E. A. Barry Masson.	
" 17	"	62842	A. Cummings, Buckingham	3 "	....	Lake of the Woods M. Co.	
" 17	Middlings	62843	" "	3 "	....	" "	
Dec. 9	Shorts	62844	D. Walker, Huntingdon	3 "	5	West. Canada F. M. Co., Ltd.	
" 9	"	62845	Pringle & Stark, Huntingdon.	3 "	...	Lake of the Woods M. Co., Ltd.	

MIDDLINGS (SHORTS).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Protein.	Fat.	Fibre.	Vital Weed Seeds per Ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.						
	p. c.	p. c.	p. c.			
....	18·65	5·16	6·15	9 Lambs Quarters, 1 American Dragonhead, 1 Pennycress.	62613	Genuine.
.....	19·25	4·92	9·60	None.....	62614	"
. ...	17·15	4·50	6·70	12 Lambs Quarters	62615	"
.. ..	16·70	4·10	10·10	None	62616	"
.....	18·95	6·34	6·95	"	62617	"
....	17·80	5·26	6·50	"	62618	
....	19·05	5·48	6·75	"	62619	"
. .. .	19·35	5·18	8·15	"	62620	"
J. J. COSTIGAN, ACTING INSPECTOR.						
....	15·65	4·10	6·85	None.....	63021	Genuine.
....	16·70	4·18	8·80	"	63022	"
....	17·10	4·82	7·60	107 Lambs Quarters, 1 Catchfly and 1 Peppergrass.	63023	"
....	17·70	4·20	6·30	None.....	63024	"
.. ..	16·30	5·44	8·90	"	63025	"
. .. .	17·10	4·26	7·75	"	63026	"
....	17·60	4·66	7·60	40 Lambs' Quarters, 1 Western False Flax.	63027	"
. ...	16·40	5·38	9·80	None...	63028	
... .	16·55	4·48	6·90	42 Lambs' Quarters, 1 Catchfly.	63029	"
. .. .	17·65	4·30	5·40	None.....	63030	"
....	19·50	5·58	8·15	"	62841	"
....	18·60	5·28	8·10	"	62842	"
....	16·70	4·04	3·95	"	62843	"
....	19·55	5·60	7·65	"	62844	"
....	18·05	5·48	8·20	"	62845	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1914.							
Oct. 23	Shorts	63526	The Foster Bennett Co., Ltd., River Desert.	3 lb.	5	Alex. Maclaren, Wakefield.	
" 24	Middlings	63527	S. Kerr, Kemptville	3 "	10	Lake of the Woods M. Co., Keewatin.	
Nov. 3	Middlings, choice.	63528	The Western Canada F. M. Co., Ltd., Ottawa.	3 "	Nil.	Vendors	
" 3	Shorts	63529	" "	3 "	"	"	
" 3	Middlings	63530	The Maple Leaf M. Co. Ottawa.	3 "	"	"	
" 3	"	63531	The Maple Leaf M. Co., Ottawa.	3 "	"	"	
" 3	Shorts	63532	The Renfrew F. M. Co., Ltd., Ottawa.	3 "	"	"	
" 4	Middlings	63533	Lake of the Woods M. Co., Ottawa.	3 "	"	"	
" 4	"	63534	The Ogilvie F. M. Co., Ltd., Ottawa.	3 "	"	"	
" 4	Shorts	63535	E. Larose, 259 Cumberland St., Ottawa.	3 "	"	Wm. Scott & Co., Deschenes, P.Q.	
DISTRICT OF KINGSTON—							
Oct. 29	Shorts	61590	J. A. McFarlane, Kingston.	3 lb.	5	West Canada, Ltd., Toronto.	
29	"	61591	" "	3 "	5	Maple Leaf Co., Ltd., Toronto.	
" "	"	61592	Kingston Milling Co., Kingston.	3 "	5	Vendors	
29	Middlings	61593	" "	3 "	5	"	
" 29	Shorts	61594	Maple Leaf Co., Kingston.	3 "	5	Maple Leaf Co., Toronto.	
" 29	Middlings	61595	" "	3 "	5	"	
" 29	Shorts	61596	W. F. McBroom, Kingston.	3 "	5	Ogilvie Co., Montreal.	
" 29	"	61597	Geo. Gibson, Kingston.	3 "	5	"	
" 29	"	61598	W. P. Peters, Kingston	3 "	5	Lake of the Wood Co.	
" 29	Middlings	61599	" "	3 "	5	Hunt Bros., London.	
Nov. 3	Shorts	61600	Hanley Netteville, Belleville.	3 "	5		

MIDDLINGS (SHORTS).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Protein.	Fat.	Fibre.	Vital Weed Seeds, per ounce.	No. of Sample.	Remarks and Opinion of Chief Analyst.
J. A. RICKEY, INSPECTOR.						
	p. c.	p. c.	p. c.			
	13·55	4·60	1·30	17 Lambs' Quarters, 7 Black Bindweed, 1 Russian Pigweed, 1 Hares-ear Mustard.	63526	Genuine. Feed Flour.
	18·55	4·80	6·55	None	63527	Genuine.
	18·90	4·04	8·10	"	63528	"
	18·65	6·44	4·35	"	63529	"
Rex Brand	18·60	5·36	8·00	"	63530	"
Maple Leaf	18·40	5·06	8·95	"	63531	"
	17·90	5·36	8·00	"	63532	"
	18·75	4·26	5·30	"	63533	"
	15·20	5·12	5·50	"	63534	"
	14·70	5·14	12·75	32 Lambs' Quarters, 1 Cinquefoil.	63535	Excess fibre. Adulterated.
JAMES HOGAN, INSPECTOR.						
	17·85	5·68	6·80	None	61590	Genuine.
	17·05	4·26	9·30	"	61591	"
	18·60	5·18	3·15		61592	"
	16·75	3·34	0·75	"	61593	Fat is low. Pass. Feed flour.
	17·75	4·68	9·25	"	61594	Genuine.
	17·15	4·28	6·00	"	61595	"
	18·10	4·30	6·60	4 Lambs' Quarters, 1 Peppergrass, 1 Pennycress.	61596	"
	17·65	4·60	7·95	None	61597	"
	19·20	4·88	5·80	"	61598	"
	14·40	3·79	9·60	"	61599	Nearly up to standard.
	10·75	2·11	11·05	"	61600	Excess fibre and deficiency in protein and fat. If sold as shorts, is adulterated.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1914.							
Nov. 17	Shorts	64568	Geo. Gibb, Collingwood	3 lb.	5	Collingwood Milling Co., Ltd.	
" 17	"	64579	Barrie Milling Co., Ltd.	3 "		Vendors	
" 18	"	64580	T. Marchand, Penetang	3 "	5	West Can. F. M. Co., Toronto.	
" 18	"	64581	George Copeland & Sons.	3 "	5	Vendors	
" 18	"	64582	W. M. Thompson, Penetang	3 "	5	Ogilvie F. M. Co., Ltd., Montreal.	
" 19	"	64583	F. Rollins, Midland	3 "	5	RobinHood M.Co., Ltd., Moosejaw.	
" 19	"	64584	Geo. Copeland & Sons, Midland.	3 "	5	Vendors	
" 20	"	64585	T. B. Cramp, Orillia	3 "	5	Ogilvie F. M. Co., Ltd., Montreal.	
" 27	"	64586	Crampsey & Kelly 684 Queen St. East, Toronto	3 "	5	Maple Leaf M. Co., Ltd., Toronto.	
" 27	"	64587	Lake of the Woods Milling Co., Toronto.	3 "	5		
DISTRICT OF HAMILTON—							
Nov. 2	Shorts	64517	E. Clarke, Orangeville	3 lb.	5	Lake of the Woods M. Co., Montreal	
" 2	"	64518	W. A. McClean & Co., 1,000 2nd Ave. E., Owen Sound	3 "	5	The Campbell F. M. Co., Ltd., Toronto.	
" 4	"	64519	J. U. Tyson, Wiarton	3 "	5	McLeod M. Co., Ltd., Stratford.	
" 5	"	64520	John Sandlos, Hanover	3 "	5	Maple Leaf M. Co. Ltd., Toronto.	
" 6	"	64521	Wm. Knechtal & Son, Hanover.	3 "	5	Vendors	
" 6	"	64522	Walkerton Flour Mills, Walkerton.	3 "	5	Vendors	
" 6	"	64523	C. S. Smith & McConnell, Walkerton.	3 "	5	Thos. Burrell & Sons, Pinkerton.	
" 9	"	64524	A. W. Swa ie, 649 Borton St. E., Hamilton.	3 "	6	Ogilvie M. Co., Ltd., Montreal.	
" 6	"	64525	A. Dyment & Son, 342 Borton St. E., Hamilton.	3 "	5	Wood M. Co., Ltd. Hamilton.	
" 10	"	64526	Kerr Milling Co., Ltd., Dundas.	3 "	5	Vendors	
DISTRICT OF WINDSOR—							
Nov. 4	Shorts	63953	W. B. Laurie, Tillonburg	3 lb.	Nil.	Quance Bros., Delhi	
" 4	"	63954	David Crossett, "	3 "	5	Seaforth M. Co., Seaforth.	
" 5	"	63965	M. Thorburn, Simcoe	3 "	10	Lake of the Woods M. Co.	

MIDDLINGS (SHORTS).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.	Vital Weed Seeds. Per ounce.		
H. J. DAGER, INSPECTOR.						
	p. c.	p. c	p. c.			
	19·35	5·32	9·00	None	64578	Genuine.
	16·40	4·92	6·78	"	64579	"
	18·60	5·52	7·26	"	64580	"
	15·95	4·62	6·06	"	64581	"
	16·75	4·10	9·24	"	64582	"
	19·55	6·12	6·30	"	64583	"
	18·50	3·50	6·72	"	64584	"
	16·25	5·06	8·14	"	64585	"
	17·00	4·46	8·48	"	64586	"
	18·90	5·02	8·48	"	64587	"
H. J. DAGER, ACTING INSPECTOR.						
	18·25	5·02	6·65	None	64517	Genuine.
	18·15	4·90	7·35	"	64518	"
	14·75	4·74	6·40	"	64519	"
	16·80	4·58	6·60	"	64520	"
	17·15	5·74	7·35	"	64521	"
	15·85	5·28	6·40	"	64522	"
	16·90	5·20	7·45	"	64523	"
	17·15	5·02	8·00	"	64524	"
	15·60	4·10	8·70	172 Lambs Quarters, 2 Catchfly, 1 Plantain, 1 Hedge Nettle.	64525	"
	20·35	5·80	9·24	None	64526	"
JOHN TALBOT, INSPECTOR.						
	14·55	4·76	7·40	None	63953	Genuine.
	15·75	4·66	8·50	"	63954	"
	19·65	5·28	7·55	"	63965	"

Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cost.	Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1914.							
Nov 5	Shorts	63966	E. Edmonds, Simcoe	3 lb.	Nil	Tavistock M. Co., Tavistock.	
" 6	"	63970	E. R. White, Aylmer, Ont.	3 "	"	T. Taylor & Co., Chatham.	
" 6	"	63971	Lewis Pierce & Sons, "	3 "	"	Empire M. Co., St. Thomas.	
" 7	"	63973	H. E. Stansell, St. Thomas	3 "	5	" "	
" 7	"	63974	J. A. Facey, "	3 "	5	Hunt Bros., London, Ont.	
" 7	"	63975	E. Slobashy, London, East	3 "	5	Unknown	
" 7	"	63976	Leith & Staples, " "	3 "	5	Dorter & Son, London.	
DISTRICT OF MANITOBA—							
Oct 29	Shorts	61182	Ogilvie F. M. Co., Ltd., Winnipeg.	3 lbs.		Vendors	
" 29	"	61183	Western Canada F. M. Co., Ltd., St. Boniface.	3 "		"	
" 30	"	61184	Lake of the Woods M. Co., Ltd., Portage La Prairie.	3 "		"	
Nov 3	"	61185	Western Canada F. M. Co., Ltd., Brandon.	3 "		"	
" 3	"	61186	Maple Leaf M. Co., Brandon	3 "		"	
" 4	"	61187	Leitch Bros, F. M. Ltd., Oak Lake.	3 "		"	
" 24	"	61188	The Winkler M. Co., Winkler.	3 "		"	
" 25	"	61189	Geo. McCulloch & Sons, Souris.	3 "		"	
" 25	"	61190	A. M. Harvie, 651 Sargent St., Winnipeg.	3 "	10	Lake of the Woods M. Co., Keewatin.	
" 26	"	61193	Standard Hay & Feed Co., 945 Logan Ave., Winnipeg	3 "		" "	
DISTRICT OF SASKATCHEWAN—							
Oct. 28	Shorts	64056	Morin & Pfieffer, Prince Albert.	2 lbs.	Nil.	Hudson Bay Mills, Prince Albert.	
" 30	"	64070	G. H. Speer, Mighton & Co., Saskatoon.	3 "	"	Quaker Oats Co., Saskatoon.	
" 30	Middlings	64072	S. A. Early & Co., Saskatoon	3 "	"	Robin Hood M. Co., Moosejaw.	
" 31	Shorts	64075	Ogilvie M. Co., Regina.	2 "	"	Vendors	
" 31	"	64077	N. Sutherland, Regina.	2 "	10	Lake of the Woods M Co, Keewatin.	

MIDDLINGS (SHORTS).

Inspector's Report (Is not an expression of opinion.)	Results of Analysis. Protein.	Fat.	Fibre.	Vital Weed Seeds per ounce.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Concluded						
	p. c.	p. c.	p. c.			
	15·85	4·52	8·30	None	63966	Genuine.
	17·25	4·44	8·80	"	63970	"
	18·60	5·08	5·85	"	63971	"
	18·85	5·52	6·75	"	63973	"
	18·20	5·58	9·15	26 False Flax, 1 Tumbling Mustard.	63974	Genuine. Excess vital weed seeds
	17·10	5·46	7·75	None	63975	Genuine.
	17·85	4·82	7·40	"	63976	"
A. C. LARIVIERE, INSPECTOR.						
	19·25	4·78	7·00	None	61182	Genuine.
	18·65	5·26	7·90	"	61183	"
	18·20	4·56	7·50	"	61184	"
	19·30	5·02	6·65	"	61185	"
	18·85	4·64	8·60	"	61186	"
	18·80	4·88	8·85	"	61187	"
	17·50	3·92	8·35	"	61188	"
	19·30	4·38	8·85	"	61189	"
	18·90	4·74	8·45	"	61190	"
	19·20	4·90	8·00	"	61193	"
L. H. HALL, INSPECTOR.						
	15·80	4·44	6·42	9 Lambs quarters, 1 black bindweed.	64056	Genuine.
	18·40	4·66	7·14	35 Lambs quarters, 1 Black bindweed.	64070	"
	19·10	4·54	6·50	None	64072	"
	17·00	4·12	9·15	"	64075	"
	18·15	4·80	6·25	"	64077	"

* Manufacturers explain the presence of weed seeds by a break down of their machinery.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF SASKATCHEWAN—							
1914.							
Nov. 2	Shorts	64081	T. W. McGregor, Mortlach.	2 lb.	10	West. Canada F. M. Co., Winnipeg	
" 2	"	64082	E. C. Bissell, Mortlach.	2 "	Nil.	Vendor	
" 3	"	64084	Ogilvie Milling Co., Pense.	3 "	"	Ogilvie M. Co., Winnipeg.	
" 4	"	64087	Lake of the Woods M. Co., Moose Jaw.	2 "	"	Lake of the Woods M. Co., Winnipeg	
" 4	Middlings	64088	Chas. H. Boyd	3 "	"	Robin Hood M. Co., Moose Jaw.	
DISTRICT OF ALBERTA—							
Nov. 19	Shorts	52044	I. E. Love, Calgary	3 lb.	5	Ogilvie, Medicine Hat.	
" 20	"	52045	Erl & Anderson, Calgary	3 "	Nil.	" "	
" 20	"	52046	Thos. Fletcher, Calgary	3 "	"	Robin Hood Mills, Ltd., Calgary.	
" 24	"	52047	Stettler Flour Mills, Stettler	3 "	"	Vendors	
" 25	"	52048	L. E. Martin, Camrose	3 "	"	Union Supply Co., Nor. Battleford.	
" 25	"	52049	P. M. Laing, Camrose	3 "	"	Robin Hood Mills, Ltd., Calgary.	
" 25	"	52050	MacEachern & McCallum, Wetaskiwin.	3 "	"	Vendors	
" 27	"	52051	Nicholson & Switzer, Lacombe.	3 "	"	Ellison M. and E. Co., Lethbridge.	
" 27	"	52052	" "	3 "	"	Robin Hood Mills, Ltd., Calgary.	
" 30	"	52053	Crown Feed and Produce Co, Calgary.	3 "	"	Lumsden M. and G. Co., Lumsden, Sask.	
DISTRICT OF ROCKY MOUNTAINS—							
Nov. 10	Middlings (Shorts.)	61714	J. R. Randall, Trail	3 lbs.	20	Robin Hood Mills, Calgary.	
" 23	Shorts	61729	Hudson's Bay Co., Kamloops.	3 "	15	Quaker Oats Co., Saskatoon.	
" 23	"	61734	R. McCall, Kamloops	3 "	15	Ogilvie M. Co., Medicine Hat.	
Dec. 1	Middlings	61737	Taylor M. & E. Co., Nelson.	3 "	15	Robin Hood Mills, Calgary.	
" 1	Shorts	61738	A. S. Horswill & Co., Nelson.	3 "	15	Ellison M. & E. Co., Lethbridge.	

MIDDLINGS (SHORTS).

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.	Vital Weed Seeds per Ounce.		
Concluded.						
	p. c.	p. c.	p. c.			
Reg. No. 83	18·75	5·40	9·15	None	64081	Genuine.
	19·15	3·02	3·40	"	64082	Fat, low. Pass.
	17·80	4·58	8·65	"	64084	Genuine.
	18·90	5·22	6·40	"	64087	"
	19·75	5·84	6·35	"	64088	"
A. W. R. MARKLEY, INSPECTOR.						
	20·95	5·22	7·60	4 Lambs' Quarters, 1 Tumbling Mustard.	52044	Genuine.
	20·95	4·48	7·40	7 Lambs' Quarters	52045	"
	19·10	5·00	6·50	None	52046	"
	13·25	2·74	0·85	"	52047	Protein and fat too low. Feed flour. Doubtful.
	17·75	4·28	8·80	"	52048	Genuine.
	20·65	4·46	6·10	"	52049	"
	15.80	5·12	4·50	"	52050	"
	18·00	4·16	5·55	14 Lambs' Quarters, 21 Wormseed Mustard.	52051	"
	18·80	4·20	7·05	None	52052	"
	18·70	5·44	7·65	"	52053	"
THOS. PARKER, INSPECTOR.						
	19·15	4·30	6·70	None	61724	Genuine.
	18·85	5·30	5·95	20 Lambs' Quarters	61729	"
	20·40	4·28	7·65	None	61734	"
	18·60	4·68	7·20	"	61737	"
	20·55	4·46	8·00	"	61738	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF VANCOUVER—				
1914.							
Oct. 30	Middlings.	55126	Brackman Ker M. Co., Ltd., Vancouver.	3 lbs.	10	Robin Hood Mills, Calgary.	
" 3	"	55127	Alberta Pacific Grain Co., Vancouver.	3 "	....	Lake of the Woods M. Co., Keewatin.	
" 3	"	55128	A. E. Burnett & Co., City Market, Vancouver.	3 "	5	" ..	
" 3	"	55129	F. T. Vernon, 255 Broadway, Vancouver.	3 "	10	" ..	
" 3	"	55130	Vancouver M. & G. Co., Ltd., Vancouver.	3 "	....	Vendors	
" 31	"	55131	McLellan, McCarter Co., Ltd., 1605 6th Ave. W., Vancouver.	3 "	10	Robin Hood Mills, Calgary.	
" 31	"	55132	" " ..	3 "	10	" ..	
Nov. 3	"	55133	Brackman Ker M. Co., Ltd., 535 Front st., New Westminster.	3 "	....	" ..	
" 3	"	55134	Grain Growers B. C. Agency, New Westminster.	3 "	...	Vendors	
" 4	"	55135	Brackman Ker M. Co., Ltd., Vancouver.	3 "	10	Magrath M. Co., Magrath, Alta.	
			DISTRICT OF VICTORIA				
Nov. 13	Shorts....	62031	Sylvester Feed Co., 709 Yates St., Victoria.	3 lbs.	...	Ogilvie M. Co. Medicine Hat.	
" 13	"	62032	Brackman Ker, M. Co., 1420 Broad St., Victoria.	3 "	....	West. Canada F. M. Co., Brandon.	
" 13	Middlings..	62033	" "	3 "	....	Royal Standard Mills, Vancouver.	
" 13	" ..	62034	Scott & Peden, cor. Store & Cormorant St., Victoria.	3 "	7	Robin Hood Mills, Calgary.	
" 13	Shorts.. . .	62035	" "	3 "	7	Ogilvie M. Co., Winnipeg.	
" 13	"	62036	" "	3 "	7	Ellison M. & E. Co., Lethbridge.	
" 23	"	62037	S. Leiser & Co., Ltd., 527 Yates St., Victoria	3 "	7	Vancouver M. & G. Co., Ltd., Vancouver.	
" 24	"	62038	Vancouver M. & G. Co., Ltd., Kingston St., Victoria.	3 "	7	" "	
" 24	Middlings..	62039	" "	3 "	7	" " ...	

MIDDLINGS (SHORTS.)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Vital weed seeds per ounce.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Protein.	Fat.	Fibre.			
F. J. MORGAN, INSPECTOR.						
	p. c.	p. c.	p. c.			
....	16·85	3·06	0·65	None	55126	Fat too low. Feed Flour. Pass.
..	17·65	3·42	1·75	"	55127	Fat low. Feed Flour. Pass.
..	20·70	4·36	4·65	"	55128	Genuine.
	20·70	4·28	4·20	"	55129	"
	18·20	2·99	0·65	"	55130	Fat low. Feed Flour. Pass.
	16·60	3·04	1·65	"	55131	Fat low. Feed Flour. Pass.
	17·70	3·64	1·90	"	55132	Genuine. Feed Flour.
	15·70	3·46	3·95	"	55133	Genuine.
	19·80	3·90	4·20	"	55134	"
..	15·60	3·96	0·90	"	55135	" Feed Flour.
D. O'SULLIVAN, INSPECTOR.						
....	20·50	5·78	6·90	None	62031	Genuine.
Reg. No. 63.	16·25	4·16	10·22	"	62032	Some excess fibre. Pass.
....	17·00	3·04	0·90	"	62033	Fat, low. Feed flour. Pass.
....	19·40	4·84	7·50	"	62034	Genuine.
	19·15	5·54	7·25	"	62035	"
	21·10	4·96	8·00	110 Lambs' Quarters. 14 Tumbling Mustard.	62036	Genuine. Excess, vital weed seeds.
	17·15	4·44	9·20	None	62037	Genuine.
	14·80	4·08	7·45	"	62038	"
	17·40	2·82	4·05	"	62039	Fat, low. Pass.